

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018

### Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_RD0827_01_s_2013_5				
Comment Code					
Inspector Comment					
RD 827 has a copy of the levee manuals.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD0827_01_s_2013_7				
Comment Code					
Inspector Comment					
RD 827 shares a maintained stockpile of Flood Response Material with RD 785.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD0827_01_f_2014_9				
Comment Code					
Inspector Comment					
RD 827 works jointly with RD 785 on Flood Preparedness and Training.					

No Photos

**\* Location**  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

**\*\* Rating**  
 A : Acceptable  
 M : Minimally Acceptable  
 U : Unacceptable  
 N : Not Inspected/Rated  
 C : Corrected  
 A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start	0.04	Rating **	A/W	Issue No.	6
LM End	0.04	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.674833 °	38.674833 °
				-121.630039 °	-121.630039 °
DWR ID	DWR_RD0827_01_s_2018_6				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Small rills beginning to form on waterside slope. Recommend monitoring.					

Photo 1 of 1 : FA\_2018\_RD0827\_187\_6\_20180904\_00004.jpg



View of rills on the waterside slope. Spring 2018.

LM Start	0.34	Rating **	C	Issue No.	17
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.671767 °	38.671767 °
				-121.626065 °	-121.626065 °
DWR ID	DWR_RD0827_01_f_2017_17				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Rill on waterside slope. Recommend monitoring.					

No Photos

LM Start	0.45	Rating **	M	Issue No.	8
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.670638 °	38.670638 °
				-121.624652 °	-121.624652 °
DWR ID	DWR_RD0827_01_s_2018_8				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree on the waterside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start	0.51	Rating **	M	Issue No.	13
LM End	0.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.669929 °	38.669929 °
				-121.623776 °	-121.623776 °
DWR ID	DWR_RD0827_01_s_2016_13				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Rills caused by rain.					

Photo 1 of 2 : FA\_2018\_RD0827\_187\_13\_20180904\_00008.jpg



View of the erosion on the landward side of the levee looking downstream. Spring 2016.

LM Start	<b>0.51</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.51</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_RD0827\_187\_13\_20180904\_00009.jpg



Updated view of runoff erosion site. LS slope. Fall 2016.

LM Start	0.61	Rating **	A/W	Issue No.	22
LM End	0.92	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			38.668873 °	38.665750 °
				-121.622513 °	-121.618523 °
DWR ID	DWR_RD0827_01_s_2012_22				
Comment Code					
V8 : Environmental Requirements.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_RD0827\_187\_22\_20180904\_00012.jpg



Revegetation site spring 2012.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)	
LM End	0.92	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			38.668873 °		38.665750 °
				-121.622513 °		-121.618523 °
DWR ID	DWR_RD0827_01_s_2012_22					
Comment Code						
V8 : Environmental Requirements.						
Inspector Comment						

Photo 2 of 2 : FA\_2018\_RD0827\_187\_22\_20180904\_00013.jpg



View of the revegetation site on the waterward side of the levee looking downstream. Fall 2015.

LM Start	1.00	Rating **	M	Issue No.	15
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.664920 °	38.664720 °
				-121.617557 °	-121.617318 °
DWR ID	DWR_RD0827_01_s_2017_15				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Prunings and fallen tree limbs on waterside levee slope.					

No Photos

LM Start	1.02	Rating **	A/W	Issue No.	18
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.664690 °	38.664690 °
				-121.617266 °	-121.617266 °
DWR ID	DWR_RD0827_01_f_2018_18				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Minor runoff on the waterside slope. Recommend monitoring.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start	1.12	Rating **	M	Issue No.	3
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.663542°	38.663542°
				-121.616056°	-121.616056°
DWR ID	DWR_RD0827_01_f_2016_3				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion on the crown and waterside slope from runoff.					

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>1.12</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : FA\_2018\_RD0827\_187\_3\_20180904\_00001.jpg



Updated view of erosion on waterside levee slope. Spring 2017.

Photo 2 of 3 : FA\_2018\_RD0827\_187\_3\_20180904\_00002.jpg



Another view of erosion on levee slope. A hole on the waterside slope has widened due to runoff. Spring 2017.

LM Start	<b>1.12</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>1.12</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : FA\_2018\_RD0827\_187\_3\_20180904\_00003.jpg



View of erosion on crown continuing to WS slope. Fall 2016.

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CR : Crown

**\*\* Rating**

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U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.34	10/24/2018 10/24/2018	Zach Jojola

LM Start	1.14	Rating **	A/W	Issue No.	14
LM End	1.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			38.663377 °	38.663377 °
				-121.615895 °	-121.615895 °
DWR ID	DWR_RD0827_01_s_2017_14				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Minor erosion on waterside slope. Recommend monitoring					

Photo 1 of 1 : FA\_2018\_RD0827\_187\_14\_20180904\_00010.jpg



View of erosion on waterside levee slope. Spring 2017.

LM Start	1.21	Rating **	M	Issue No.	11
LM End	1.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.662546 °	38.662546 °
				-121.615083 °	-121.615083 °
DWR ID	DWR_RD0827_01_s_2017_11				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree limbs on waterside levee slope.					

No Photos

LM Start	1.30	Rating **	M	Issue No.	4
LM End	1.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.661485 °	38.661485 °
				-121.614006 °	-121.614006 °
DWR ID	DWR_RD0827_01_s_2017_4				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen tree limbs on waterside levee slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/24/2018 10/24/2018	Zach Jojola

LM Start	0.15	Rating **	A/W	Issue No.	10	
LM End	0.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	2017 Storm Damage			38.674778	°	38.674583
				-121.642806		°
DWR ID	DWR_RD0827_02_f_2017_10					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:200						
Site Designation:RD 827-02						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/6/2017						
Notes: no damage visible, ws armored with riprap						

LM Start	<b>0.15</b>	Rating **	A/W	Issue No.	<b>10 (cont)</b>
LM End	<b>0.16</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : LEVAL\_FA\_2018\_200\_1239.jpg



Photo 2 of 3 : LEVAL\_FA\_2018\_200\_1245.jpg

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

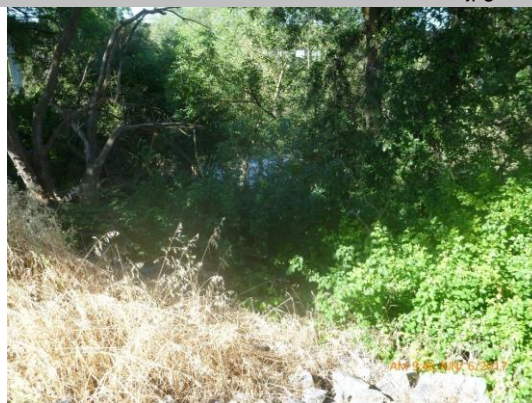
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Reclamation District No. 0827 Elkhorn**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/24/2018 10/24/2018	Zach Jojola

LM Start	0.15	Rating **	A/W	Issue No.	10 (cont)	
LM End	0.16	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.674778 °	38.674583 °	
				-121.642806 °	-121.642722 °	
DWR ID	DWR_RD0827_02_f_2017_10					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:200						
Site Designation:RD 827-02						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/6/2017						
Notes: no damage visible, ws armored with riprap						

Photo 3 of 3 : LEVAL\_FA\_2018\_200\_1246.jpg



LM Start	2.62	Rating **	M	Issue No.	6
LM End	2.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			38.643375 °	38.643375 °
				-121.621776 °	-121.621776 °
DWR ID	DWR_RD0827_02_s_2018_6				
Comment Code					
DE : Debris					
Inspector Comment					
Fridge on the waterside slope.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.78	10/24/2018 10/24/2018	Zach Jojola

LM Start	2.72	Rating **	M	Issue No.	13
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.642139°	38.642028°
				-121.620750°	-121.620667°
DWR ID	DWR_RD0827_02_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:199					
Site Designation:RD 827-01					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: landside. Visqueen has dried up and is no longer protecting the slope.					

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	

Photo 1 of 6 : FA\_2018\_RD0827\_188\_13\_20181025\_00023.jpg



Updated view of sloughing on the landside slope. Fall 2018.

Photo 2 of 6 : FA\_2018\_RD0827\_188\_13\_20181025\_00022.jpg



View of visqueen placed by LMA adjacent to pump. Fall 2018.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Unit No. 02 Yolo Bypass	Left	2.78	10/24/2018 10/24/2018	Zach Jojola

LM Start	2.72	Rating **	M	Issue No.	13 (cont)
LM End	2.73	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			38.642139 °	38.642028 °
				-121.620750 °	-121.620667 °
DWR ID	DWR_RD0827_02_f_2017_13				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:199					
Site Designation:RD 827-01					
Repair Type: Erosion					
Rating:Area of Concern					
Field Date:6/6/2017					
Notes: landslide. Visqueen has dried up and is no longer protecting the slope.					

LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	

Photo 3 of 6 : FA\_2018\_RD0827\_188\_13\_20180904\_00004.jpg



Updated view of sloughing on landside slope. Fall 2017.

Photo 4 of 6 : LEVAL\_FA\_2018\_199\_1231.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 02 Yolo Bypass	Left	2.78	10/24/2018 10/24/2018	Zach Jojola

LM Start	2.72	Rating **	M	Issue No.	13 (cont)	
LM End	2.73	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	2017 Storm Damage			38.642139 °	38.642028 °	
				-121.620750 °	-121.620667 °	
DWR ID	DWR_RD0827_02_f_2017_13					
Comment Code						
Inspector Comment						
Levee Evaluation Comments						
Description:						
Site ID No:199						
Site Designation:RD 827-01						
Repair Type: Erosion						
Rating:Area of Concern						
Field Date:6/6/2017						
Notes: landslide. Visqueen has dried up and is no longer protecting the slope.						

Photo 5 of 6 : LEVAL\_FA\_2018\_199\_1232.jpg



LM Start	<b>2.72</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	Ma	Location *	

Photo 6 of 6 : LEVAL\_FA\_2018\_199\_1234.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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